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NEWS 19 May 12 Polymer links for the POLYLINK command completed in REGISTRY

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=> s ATP Binding Cassette transporter? or ABC transporter?
L1 8071 ATP BINDING CASSETTE TRANSPORTER? OR ABC TRANSPORTER?

=> s l1 and ABCA5
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L3 13 ABCA5

=> s l2 or l3
L4 13 L2 OR L3

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L5 ANSWER 1 OF 9 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN

DUPLICATE 1
AN 2003:146571 BIOSIS
DN PREV200300146571
TI Cloning of human and rat ***ABCA5*** / ***Abca5*** and detection of a human splice variant.
AU Petry, Frauke; Kotthaus, Andre; Hirsch-Ernst, Karen I. [Reprint Author]
CS Department of Toxicology, Institute of Pharmacology and Toxicology, University of Goettingen, Robert-Koch-Strasse 40, Goettingen, D-37075, Germany
khirsche@med.uni-goettingen.de
SO Biochemical and Biophysical Research Communications, (January 10 2003) Vol. 300, No. 2, pp. 343-350. print.
CODEN: BBRC9. ISSN: 0006-291X.
DT Article
LA English
ED Entered STN: 19 Mar 2003
Last Updated on STN: 19 Mar 2003
AB We presently report the cloning of cDNA sequences encoding the novel rat ATP-binding cassette (***ABC***) ***transporter*** ***Abca5*** and the orthologous human transporter, recently designated as ***ABCA5***. Furthermore, the existence of a novel non-translated exon of the ***ABCA5*** gene, previously assigned to an ABCA gene cluster in the chromosomal region 17q24.2-3, is demonstrated. ***Abca5*** and ***ABCA5*** cDNAs are predicted to give rise to proteins of 1642 amino acids which exhibit the typical domain arrangement of ABC full transporters and share 90% identity within the amino acid sequences. A cDNA representing an ***ABCA5*** mRNA splice variant was cloned which would result in a truncated protein equivalent to an ABC half transporter. Northern blot analyses revealed expression of ***ABCA5*** or ***Abca5*** mRNA in several tissues, but particularly high ***Abca5*** mRNA expression was observed in rat testis. Up-regulation of ***Abca5*** mRNA expression during culture of primary rat hepatocytes suggests that hepatocyte cultures should provide a basis for investigation of ***Abca5*** gene regulation and elucidation of ***Abca5*** function.

L5 ANSWER 2 OF 9 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN

AN 2003:307429 BIOSIS
DN PREV200300307429
TI Expression of rat ***ATP*** - ***binding*** - ***cassette*** ***transporter*** ***ABCA5*** mRNA in primary rat hepatocyte cultures.
AU Petry, F. [Reprint Author]; Hirsch-Ernst, K. I. [Reprint Author]
CS Department of Toxicology, University of Goettingen, Robert-Koch-Str. 40, D-37075, Goettingen, Germany
SO Naunyn-Schmiedeberg's Archives of Pharmacology, (March 2003) Vol. 367, No. Supplement 1, pp. R156. print.
Meeting Info.: 44th Spring Meeting of the Deutsche Gesellschaft fuer Experimentelle und Klinische Pharmakologie und Toxikologie and the 20th Meeting of the Gesellschaft fuer Umwelt-Mutationsforschung. Mainz, Germany. March 17-20, 2003.
ISSN: 0028-1298 (ISSN print).
DT Conference; (Meeting)
Conference; Abstract; (Meeting Abstract)
LA English
ED Entered STN: 2 Jul 2003
Last Updated on STN: 2 Jul 2003

L5 ANSWER 3 OF 9 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN

DUPLICATE 2
AN 2003:104158 BIOSIS
DN PREV200300104158
TI Evolutionary analysis of a cluster of ATP-binding cassette (ABC) genes.
AU Annilo, Tarmo; Chen, Zhang-Qun; Shulenin, Sergey; Dean, Michael [Reprint Author]
CS Human Genetics Section, Laboratory of Genomic Diversity, NCI-Frederick, Frederick, MD, 21702, USA
dean@ncifcrf.gov
SO Mammalian Genome, (January 2003) Vol. 14, No. 1, pp. 7-20. print.
ISSN: 0938-8990 (ISSN print).
DT Article
LA English
ED Entered STN: 19 Feb 2003
Last Updated on STN: 19 Feb 2003
AB To study the evolutionary history of ATP-binding cassette (***ABC***) ***transporters*** in mammals, we have characterized a cluster of five ABCA-subfamily genes localized on mouse Chromosome (Chr) 11. The genes, named ***Abca5***, Abca6, Abca8a, Abca8b, and Abca9, are arranged in a head-to-tail fashion in a cluster that spans about 400 kb of the genomic DNA, each gene occupying about 70 kb. The transcripts of these genes

contain an open reading frame from 4863 (for Abca8a and Abca8b) to 4929 (for ***Abca5***) nucleotides, and have distinct tissue-specific expression pattern. The predicted proteins contain two transmembrane domains and two nucleotide binding domains, arranged similar to the other members of ABCA subfamily. Similarity of both the genomic organization and primary structure among the genes in this cluster suggests that the duplications generating the cluster occurred relatively recently compared with most of the ABC genes in present-day mammalian genomes. For instance, the Fugu rubripes genome contains an ortholog for only one gene, ***Abca5***, from this cluster. Phylogenetic and comparative sequence analysis reveals that after the divergence of rodent and primate lineages, at least one gene has been lost in each genome. In addition, we found that both mouse and human clusters show evidence of a number of gene conversions, in several cases involving intron sequences.

L5 ANSWER 4 OF 9 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2002:449913 CAPLUS

DN 137:42635

TI Protein and cDNA sequences of novel human ABC (***ATP*** - ***binding*** ***cassette***) ***transporters***, ***ABCA5***, ABCA6, ABCA9, and ABCA10 and uses thereof

IN Deneffe, Patrice; Rosier-Montus, Marie-Francoise; Prades, Catherine; Arnould-Reguigne, Isabelle; Duverger, Nicolas; Allikmets, Rando; Dean, Michael

PA Aventis Pharma S.A., Fr.; The Government of the United States of America, Represented by the Secretary, Department of Health and Human Services

SO PCT Int. Appl., 216 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 2

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
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| PI | WO 2002046458 | A2 | 20020613 | WO 2001-EP15401 | 20011207 |
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| | WO 2002046458 | A3 | 20040108 | | |
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| EP | 1213352 | A1 | 20020612 | EP 2000-403440 | 20001207 |
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| AU | 2002017166 | A5 | 20020618 | AU 2002-17166 | 20011207 |
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| EP | 1399587 | A2 | 20040324 | EP 2001-999665 | 20011207 |
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PRAI EP 2000-403440 A 20001207

US 2001-263231P P 20010123

WO 2001-EP15401 W 20011207

AB The present invention provides nucleic acids corresponding to various exons of ***ABCA5***, ABCA6, ABCA9, and ABCA10 genes as well as cDNAs

encoding the novel full length of ***ABCA5***, ABCA6, ABCA9, and ABCA10 proteins that belong to ABC (***ATP*** - ***binding*** ***cassette*** ***transporter***) superfamily. The invention also relates to means for the detection of polymorphisms in general, and of mutations in particular, in the ***ABCA5***, ABCA6, ABCA9, and ABCA10 genes or in the corresponding protein produced by the allelic form of the ***ABCA5***, ABCA6, ABCA9, and ABCA10 genes.

L5 ANSWER 5 OF 9 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2002:674680 CAPLUS

DN 137:212031

TI Protein and cDNA sequences of human ***ATP*** - ***binding*** ***cassette*** ***transporter*** ***ABCA5*** and their uses in diagnosis and therapy

IN Chen, Hongyun; Kilinski, Ligia; Le, Bihan Stephane

PA Active Pass Pharmaceuticals, Inc., Can.

SO U.S. Pat. Appl. Publ., 52 pp.

CODEN: USXXCO

DT Patent

LA English

FAN.CNT 1

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
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| PI | US 2002123107 | A1 | 20020905 | US 2002-90458 | 20020301 |
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| | WO 2002070690 | A2 | 20020912 | WO 2002-CA266 | 20020301 |
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| | WO 2002070690 | A3 | 20030116 | | |
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RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRAI US 2001-272885P P 20010302

AB The invention provides human isolated nucleic acid mols., designated ***ABCA5*** transporter nucleic acid mols., which encode novel ***ABC*** ***transporter*** family members. The invention also provides antisense nucleic acid mols., recombinant expression vectors contg. ***ABCA5*** transporter nucleic acid mols., host cells into which the expression vectors have been introduced, and non-human transgenic sterile animals in which an ***ABCA5*** transporter gene has been disrupted. The invention further provides isolated ***ABCA5*** transporter proteins, anti- ***ABCA5*** transporter antibodies, and screening assays for ***ABCA5*** transporter modulators. Diagnostic and therapeutic methods utilizing compns. of the invention are also provided.

L5 ANSWER 6 OF 9 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2002:107902 CAPLUS

DN 136:161325

TI Flavopiridol drug combinations with glucuronosyltransferase activity enhancer and methods with reduced side effects by enhancing its metabolism

IN Ratain, Mark J.; Innocenti, Federico; Iyer, Lalitha

PA USA

SO U.S. Pat. Appl. Publ., 64 pp., Cont.-in-part of U.S. Ser. No. 553,829.

CODEN: USXXCO

DT Patent

LA English

FAN.CNT 2

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
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| PI | US 2002016293 | A1 | 20020207 | US 2001-835082 | 20010412 |
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PRAI US 2000-553829 A2 20000421

AB This invention provides methods, formulations and kits to reduce the toxicity of flavopiridol and analogs thereof. Disclosed are therapeutics and treatment methods employing such drugs in combination with agents that increase conjugative enzyme activity or glucuronosyltransferase activity, and agents that decrease biliary transport protein activity, such as cyclosporine A, the resultant effects of which are to decrease the significant side effects previously assocd. with treatment using these drugs. The invention also characterizes specific isoforms of glucuronyltransferase enzymes involved in glucuronidation of flavopiridols and their analogs.

L5 ANSWER 7 OF 9 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2002:446159 CAPLUS

DN 137:29064

TI Human ***ABCA5***, ABCA6, ABCA9, and ABCA10 genes encoding ***ATP***

binding ***cassette*** ***transporters*** and their use in diagnosis and treatment of diseases associated with reverse transport of cholesterol

IN Deneffe, Patrice; Rosier-Montus, Marie-Francoise; Prades, Catherine; Arnoud-Reguigne, Isabelle; Duverger, Nicolas; Allikmets, Rando; Dean, Michael

PA Aventis Pharma S.A., Fr.

SO Eur. Pat. Appl., 142 pp.

CODEN: EPXXDW

DT Patent

LA English

FAN.CNT 2

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
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| PI | EP 1213352 | A1 | 20020612 | EP 2000-403440 | 20001207 |
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| WO | 2002046458 | A2 | 20020613 | WO 2001-EP15401 | 20011207 |
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| WO | 2002046458 | A3 | 20040108 | | |
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| AU | 2002017166 | A5 | 20020618 | AU 2002-17166 | 20011207 |
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| US | 2003044895 | A1 | 20030306 | US 2001-5338 | 20011207 |
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| EP | 1399587 | A2 | 20040324 | EP 2001-999665 | 20011207 |
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PRAI EP 2000-403440 A 20001207

US 2001-263231P P 20010123

WO 2001-EP15401 W 20011207

AB The present invention relates to nucleic acids corresponding to various exons of ***ABCA5***, ABCA6, ABCA9, and ABCA10 genes as well as cDNAs

encoding the novel full length of ***ABCA5***, ABCA6, ABCA9, and ABCA10 ***ATP*** ***binding*** ***cassette*** ***transporters***. The invention also relates to means for the detection of polymorphisms in general, and of mutations in particular, in the ***ABCA5***, ABCA6, ABCA9, and ABCA10 genes or in the corresponding protein produced by the allelic form of the ***ABCA5***, ABCA6, ABCA9, and ABCA10 genes.

RE.CNT 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD

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L5 ANSWER 8 OF 9 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN

AN 2002:616202 BIOSIS

DN PREV200200616202

TI Evolutionary analysis of a cluster of ATP-binding cassette (ABC) genes reveals multiple gene duplication, gene deletion and gene conversion events.

AU Annilo, T. [Reprint author]; Chen, Z.-Q.; Shulenin, S. [Reprint author]; Dean, M. [Reprint author]

CS Human Genetics Section, Laboratory of Genomic Diversity, NCI, Frederick, MD, 21702, USA

SO American Journal of Human Genetics, (October, 2002) Vol. 71, No. 4 Supplement, pp. 324. print.

Meeting Info.: 52nd Annual Meeting of the American Society of Human Genetics. Baltimore, MD, USA. October 15-19, 2002. American Society of Human Genetics.

CODEN: AJHGAG. ISSN: 0002-9297.

DT Conference; (Meeting)

Conference; Abstract; (Meeting Abstract)

LA English

ED Entered STN: 4 Dec 2002

Last Updated on STN: 4 Dec 2002

L5 ANSWER 9 OF 9 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN

AN 2003:324630 BIOSIS

DN PREV200300324630

TI EXPRESSION OF ABCA TRANSPORTER AT RAT AND HUMAN BLOOD - BRAIN BARRIER.

AU Ohtsuki, S. [Reprint Author]; Watanabe, Y. [Reprint Author]; Kamoi, M. [Reprint Author]; Kamiya, N. [Reprint Author]; Hori, S. [Reprint Author]; Terasaki, T. [Reprint Author]

CS Grad. Sch. of Pharm. Sci., NICH, Tohoku Univ., Sendai, Japan

SO Society for Neuroscience Abstract Viewer and Itinerary Planner, (2002) Vol. 2002, pp. Abstract No. 580.18. <http://sfn.scholarone.com.cd-rom>.

Meeting Info.: 32nd Annual Meeting of the Society for Neuroscience. Orlando, Florida, USA. November 02-07, 2002. Society for Neuroscience.

DT Conference; (Meeting)

Conference; (Meeting Poster)

Conference; Abstract; (Meeting Abstract)

LA English

ED Entered STN: 16 Jul 2003

Last Updated on STN: 16 Jul 2003

AB ABCA family belongs to ATP binding cassette (***ABC***)

transporter superfamily and contains subtypes which are expressed in the brain and involved in the efflux transport system. Since the recent study has reported ABCB1 (MDR1) is not expressed at human blood-brain barrier (BBB), but in astrocyte foot processes¹, it is important to clarify the BBB expression of other ABCA families in human. The purpose of this study is investigating the expression of ABCA family at rat and human BBB. The expression of ABCA1, 2, 3, 5 and 6 mRNA were detected in conditionally immortalized rat brain capillary cell lines (TR-BBB11 and/or 13) by RT-PCR. Further studies were performed about ABCA2 and 5, and those transporters mRNA were also detected in rat brain capillary fraction. In situ hybridization analysis exhibited that

ABCA5 was localized at cerebral cortex, hippocampus, lateral ventricles and cerebellum. These results suggest that ABCA2, 5 were expressed at rat BBB, and ***ABCA5*** was also expressed at rat blood-cerebrospinal fluid barrier. The mRNA expression in human brain was examined by northern blot analysis. ABCA2 were detected in all examined brain region at 8.1 kb. ***ABCA5*** were expressed in cerebellum intensely and also detected in cerebral cortex, occipital pole and frontal lobe at 7.1 kb. Furthermore, ABCA2 and 5 were detected in cultured human brain capillary endothelial cells by RT-PCR. This result suggests that ABCA2 and 5 are expressed at human BBB. ABCA2 and 5 could be involved in efflux transport system at rat and human BBB. 1. Pardridge W.M. et al. J. Neurochem 68,1278-1285 (1997).

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